Name: **Grade:** **Score:**

Worksheet #4

COMPOUND INTEREST- FINDING AMOUNT & C.I.

Learning goal: Students will be able to understand and to find compound interest in real-life problems.

Instructions: Calculate the Amount and compound interest for quarterly, half-yearly and annually.

$$A = P\left(1 + \frac{r}{200}\right)^{2n} \quad A = P\left(1 + \frac{r}{400}\right)^{4n} \quad A = P\left(1 + \frac{r}{100}\right)^{n}$$

WORD PROBLEM	CALCULATE & ANSWER
Ramesh deposited ₹5,000 in a savings account that earns 6% interest per annum. He kept the money for 5 years.	
Priya deposited ₹10,000 in a fixed deposit that earns 8% interest per annum. She kept the money for 5 years.	
Kiran invested ₹8,000 in a recurring deposit that earns 7% interest per annum. He kept the money for 4 years.	
Meera deposited ₹6,500 in a savings account that earns 5% interest per annum. She kept the money for 6 years.	
Arjun invested ₹12,000 in a fixed deposit that earns 9% interest per annum. He kept the money for 2 years.	
Sita deposited ₹7,500 in a savings account that earns 4% interest per annum. She kept the money for 5 years.	
Rahul invested ₹15,000 in a recurring deposit that earns 10% interest per annum. He kept the money for 5 years.	
Lakshmi deposited ₹9,000 in a fixed deposit that earns 6% interest per annum. She kept the money for 7 years.	

Name: **Grade:** **Score:**

Worksheet #4 (Answers)

COMPOUND INTEREST- FINDING AMOUNT & C.I.

Learning goal: Students will be able to understand and to find compound interest in real-life problems.

Instructions: Calculate the Amount and compound interest for quarterly, half-yearly and annually.

$$A = P\left(1 + \frac{r}{200}\right)^{2n} \quad A = P\left(1 + \frac{r}{400}\right)^{4n} \quad A = P\left(1 + \frac{r}{100}\right)^{n}$$

WORD PROBLEM	CALCULATE & ANSWER
Ramesh deposited ₹5,000 in a savings account that earns 6% interest per annum. He kept the money for 5 years.	$A = 5000\left(1 + \frac{6}{100}\right)^{5}$ $A = 5000(1.06)^{5}$ $A = 6,691.31$
Priya deposited ₹10,000 in a fixed deposit that earns 8% interest per annum. She kept the money for 5 years.	$A = 10000\left(1 + \frac{8}{100}\right)^{5}$ $A = 10000(1.08)^{5}$ $A = 14,693.89$
Kiran invested ₹8,000 in a recurring deposit that earns 7% interest per annum. He kept the money for 4 years.	$A = 8000\left(1 + \frac{7}{400}\right)^{4\times4}$ $A = 8000(1.0175)^{4\times4}$ $A = 10,567.89$
Meera deposited ₹6,500 in a savings account that earns 5% interest per annum. She kept the money for 6 years.	$A = 6500\left(1 + \frac{5}{400}\right)^{4\times6}$ $A = 6500(1.0125)^{4\times6}$ $A = 8,789.12$
Arjun invested ₹12,000 in a fixed deposit that earns 9% interest per annum. He kept the money for 2 years.	$A = 12000\left(1 + \frac{9}{400}\right)^{4\times2}$ $A = 12000(1.0225)^{4\times2}$ $A = 14,123.45$
Sita deposited ₹7,500 in a savings account that earns 4% interest per annum. She kept the money for 5 years.	$A = 7500\left(1 + \frac{4}{200}\right)^{2\times5}$ $A = 7500(1.02)^{2\times5}$ $A = 9,123.45$
Rahul invested ₹15,000 in a recurring deposit that earns 10% interest per annum. He kept the money for 5 years.	$A = 15000\left(1 + \frac{10}{200}\right)^{2\times5}$ $A = 15000(1.05)^{2\times5}$ $A = 24,567.89$
Lakshmi deposited ₹9,000 in a fixed deposit that earns 6% interest per annum. She kept the money for 7 years.	$A = 9000\left(1 + \frac{6}{200}\right)^{2\times7}$ $A = 9000(1.03)^{2\times7}$ $A = 13,456.78$